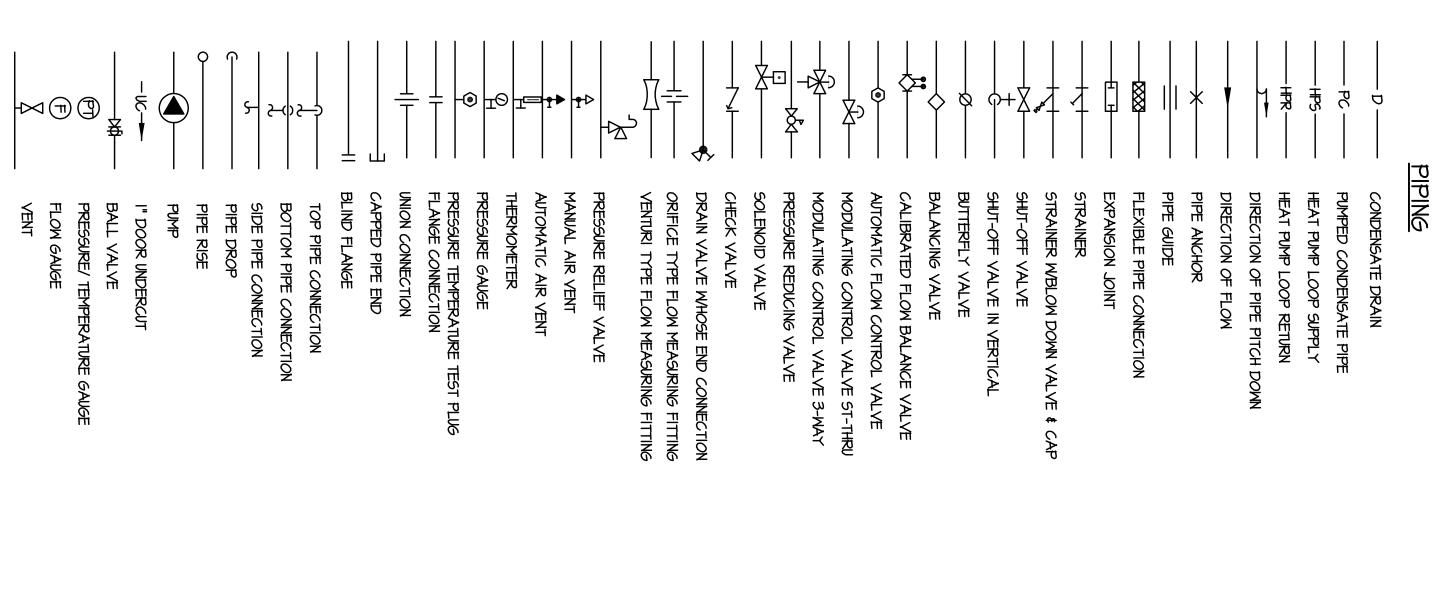
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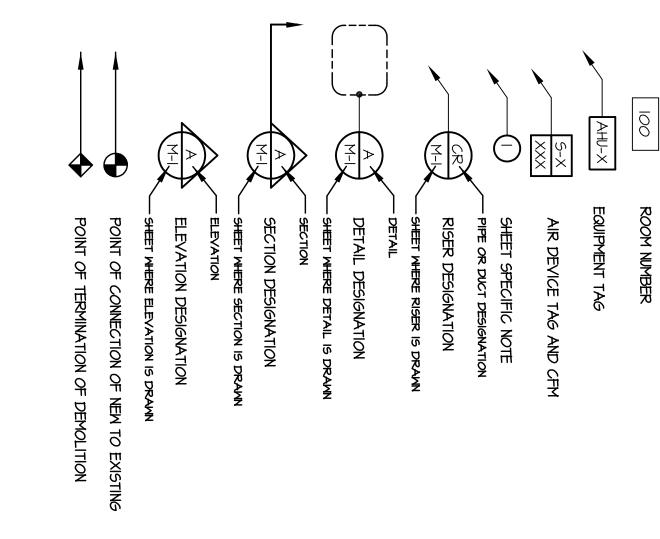


SMOKE DA

COMBINATION

AMPER, HORIZONTALLY MOUNTED

して	AMPER, HORIZONTALLY MOUNTED
	AMPER, VERTICALLY MOUNTED
	PER, HORIZONTALLY MOUNTED
<b>†</b>	PER, VERTICALLY MOUNTED - FIRE DAMPER AND DUCT OOR. ACCESS DOOR SHALL BE LARGE ENOUGH TO SPECTION AND MAINTENANCE OF THE DAMPER AND ITS 6 PARTS. PROVIDE PLASTIC LAMINATE LABEL MITH GH LETTERING READING "FIRE DAMPER" ON ACCESS
4	
	ICH
	NTED SMOKE DETECTOR TEMPERATURE SENSOR
-	RESSURE SENSOR
	АТ
	IF ELEVATION - DROP IN DIRECTION OF FLOW
,	IF ELEVATION - RISE IN DIRECTION OF FLOW
	LAR-TO-ROUND TRANSITION
,	DUCT CONNECTOR (VIBRATION ISOLATION)
	DUCT, ROUND
<b>\</b>	CT (UP, DOWN) Ø
	NR DUCT (UP, DOWN)



### RAWIZO 2

MECHANICAL DETAILS	M202
MECHANICAL SCHEDULES AND VENTILATION TABLES	M201
MECHANICAL SECTIONS	EOIM
MECHANICAL PIPING PLAN	MIO2
MECHANICAL FLOOR PLAN	MIOI
MECHANICAL SITE PLAN	M002
MOOI COVER SHEET - MECHANICAL	M00

RADIUS ELBOM

UCT CAP

UCT TRANSITION

SID TO FLEXIBLE

DUCT TURNING DOWN

## RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE. READ SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO THESE DOCUMENTS. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 15.

AECHANICAL

GENER AL

Samahaha Associates p.c.

A ALL MECHANICAL EQUIPMENT MIST BE INSTALLED IN A MANNER MHICH ALLOWS REASONABLE AND ADEQUATE ACCESS TO CONTROLS SYSTEM
A COMPONENTS USED FOR BALANCING AND MAINTENANCE, BLECTRICAL/POWER, FILTERS FOR REPLACEMENT, ACCESS PANELS AND ANY OTHER COMPONENT
REQUIRING ACCESS. CONTROL MITH OCC REPRESENTATIVE.

B. ACCESS PANELS SHALL BE PROVIDED TO CLEAN COILS AND SERVICE DAMPERS, HEATERS, VALVES AND ALL CONCEALED MECHANICAL EQUIPMENT.
COMPRING WITH OCC REPRESENTATIVE.
COMPRING WITH COCK REPRESENTATIVE.
COMPRING WITH CORPORATION ON CEILING ACCESS DEVICES. ACCESS SHALL BE PROVIDED FOR THE FOLLOWINS:
I. FIRE AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS FOR SERVICING OF MECHANICAL EQUIPMENT AND DEVICES. REFER TO SPECIFICATIONS FOR THREAD SYNCLE DAMPERS
2. VOILINE DAMPERS
3. EXHABIST AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS
3. EXHABIST AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS
3. EXHABIST AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS
3. EXHABIST AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS
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3. EXHABIST AND SUPPLY FANS ABOVE OFF. BOARD CEILINGS
4. MATER SOURCE HEAT RIVERS
4. MATER SOURCE HEAT RIVERS
5. MATER SOURCE HEAT RIVERS
6. PROVIDE DETECTORS SHALL BE PRIVISED AND MIRED TO THE FIRE ALARM SYSTEM AND FIRESWOKE DAMPERS AND SHOKE DETECTORS. CONFIRM WITH OCC
6. PROVIDED THE COLOR SHALL HOUTH THE DETECTORS IN DUCTHORS, WHERE REQUIRED BY COPE. AND SHOKE THE DETECTORS TO THE ATC SYSTEM AND
6. FROVIDED THROUGH PERENATION FIRE STOPPING AT ALL PIPING AND DICTIVORK PENETRATIONS THROUGH FIRE AND SHOKE RESISTANT
CONSTRUCTION. RETER TO ACCHIECTURAL SPECIFICATIONS
6. SHOKE DAMPERS AND ASSOCIATED ACCESS PANELS METER SHOWN ON DRAWINGS AND METER REQUIRED BY META AND SHOKE PRETIRATED.
6. SHOKE DAMPERS AND ASSOCIATED ACCESS PANELS METER SHOWN ON DRAWINGS AND METER REQUIRED BY METAR FOR DICTS THAT PRETIRATED.
6. SHOKE DAMPERS AND ASSOCIATED ACCESS PANELS METER SHOWN ON DRAWINGS AND METER FOR DI

S3E

Klingemann

ADDENDUM #1

5.12.2010

REVISION

DATE

- A ALL DUCTWORK THAT IS NOT INTERNALLY INSULATED SHALL HAVE EXTERNAL WRAP INSULATION. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION, INSULATION REGUIREMENTS AND SCHEDULE.

  B. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SYSTEM.
  C. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SYSTEM.
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  C. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SYSTEM.
  C. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SHALL HAVE INTERNAL INSULATION UNLESS OTHERWISE SPECIFIED. THE OUTSIDE DIPMENSION SHALL INCREASE AS REQUIRED TO MAINTAIN THE INTERNAL FREE AREA SIZE AS SHOWN ON PLANS OR AS RECOMMENDED BY MANUFACTURERS.
  E. DUCT FITTINGS ARE INDICATED SYMBOLICALLY. REFER TO DETAILS, CONFIGURATION OF FITTING, TAPS AND CONNECTIONS. DUCT CONSTRUCTION SHALL COPPLY WITH SHACKING CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWNING VANES.
  F. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWNINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO HARNISHED EQUIPMENT. FILE UPRIFY AND COORDINATE ALL DIFFESIONS BYTAGE THANKATION.
  F. FROYIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO ALL MECHANICAL EQUIPMENT. ALL DUCTS TO BE GROUNDED ACROSS FLEXIBLE CONNECTION WITH FLEXIBLE CONNECTIONS ON DUCTHORIC AND PROVIDE THANKS. LIGHT FIXTURES SHALL NOT TOUCH DUCTHORIC.
  F. FROYIDE OFFSETS AND TRANSITIONS IN DUCTHORIC AND PRINGE OF BEAUT.
  F. DUCTHORIC SHALL BE COVERED DUCTHORIC AND PRINGE OF BEAUT.
  F. ALL DUCTHORIC SHALL BY COVERED TO ANCHOR MALLS OR MOUNT LIGHT FIXTURES. LIGHT FIXTURES SHALL NOT TOUCH DUCTHORIC.
  F. ALL DUCTHORIC SHALL BE COVERED DUCTHORIC AND PRINGE OF BEAUT.
  F. ALL DUCTHORIC SHALL BE ROUND AND PAINTED UNLESS INDICATED OTHERWISE. COORDINATE COLOR WITH ARCHITECT.
  F. ALL DUCTHORIC SHALL BE ROUND AND PAINTED UNLESS INDICATED OTHERWISE. COORDINATE COLOR WITH ARCHITECT.
  F. ALL DUCTHORIC SHALL BE ROUND AND PAINTED UNLESS INDICATED OTHERWISE. COORDINATE COLOR WITH ARCHITECT.
- HANGERS A. ALL THREADED RODS INSTALLED SHALL NOT BE OUT OF TRUE. A DISTANCE EQUAL TO OR GREATER THAN 2%% OF ITS INSTALLED LENGTH. RODS THAT ARE DEFICIENT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

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- B. CONCENTRATE LOADS AT JOIST/BEAM LOCATIONS. PROVIDE ANGLE BRACES WHERE CONCENTRATED LOADS OCCUR AT OTHER LOCATIONS. ALL HANGER SUPPORTS SHALL BE SUPPORTED FROM THE TOP OF STRUCTURE.
- AIR TERMINAL DEVICES
  A. EXACT LOCATION OF THE DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS BEFORE INSTALLATION. PROVIDE SYMMETRY WITH THE ROOM LIGHTING SYSTEMS.
  B. VERIFY DIFFUSER, GRILLE AND REGISTER MOUNTING FRAME TYPES WITH THE CEILING TYPES. MATCH FRAME TYPE WITH CEILING CONFIGURATION.
  C. PROVIDE DUCTMORK TO TERMINAL AIR DEVICES AT SCHEDULED INLET SIZE UNLESS OTHERWISE INDICATED. ALL DUCT WORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- FILTERS

  A. ONE SET OF CONSTRUCTION FILTERS AND ONE SET OF POST CONSTRUCTION FILTERS SHALL BE PROVIDED (AS A MINIMUM) FOR ALL MECHANICAL
  A. ONE SET OF CONSTRUCTION FILTERS. REFER TO SPECIFICATION DIVISION IS FOR ADDITIONAL FILTER REQUIREMENTS AND FILTER SPECIFICATION.
  B. DURING CONSTRUCTION, TEMPORARY FILTERS SHALL BE USED AT ALL RETURN DUCT OPENING THROUGHOUT AND RETURN PLENUM OPENINGS ABOVE CEILING AT MECHANICAL ROOM.
  C. FINAL FILTERS IN UNITS SHALL BE MERV-13 RATED. REFER TO CONSTRUCTION IAQ MANAGEMENT PLAN (LEED CREDIT EQ3.2)

Renovations

Additions &

- PIPING
  A. INSULATE PIPING AND DUCTWORK AS SPECIFIED: PERFORM TESTS SPECIFIED BEFORE INSULATING.
  A. INSULATE PIPING AND DUCTWORK AS SPECIFIED: PERFORM TESTS SPECIFIED BEFORE INSULATING.
  B. INSULATE ALL WATER PIPING LOCATED ALONG PERIMETER WALLS.
  C. PROVIDE VENTS AT HEIGHT POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
  D. ALL CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO PLUMBING AS INDICATED ON DRAWINGS. CONDENSATE SHALL BE ROUTED TO EXTERIOR WALL AND SPILL ONTO ROOF.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES BEFORE FABRICATION AND INSTALLATION.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND DIVISION 16 OF SPECIFICATIONS. ALL DUCTWORK AND PIPING SHALL NOT BE INSTALLED OVER ANY ELECTRICAL PANELS PER NEC CODE. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR MECHANICAL WORK

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PER MINUTE
PER SECOND
ON BOTTOM
ON TOP

POUNDS PER SQUARE INCH GAUGE PRESSURE PRESSURE PRESSURE PRESSURE PROP PRESSURE REDUCING VALVE RADIUS
RELATIVE HIMIDITY RESIDENT UNIT HEAT PUMP RELOCATED EXISTING RELOCATED EXISTING REMOVE AND RELOCATE RETURN AIR REVOLUTION PER MINUTE ROOM ROOF TOP UNIT SHEET
SMOKE DETECTOR SPECIFICATION STANLARD STANLESS STEEL SYMBOL TEMPERATURE CONTROL COMPRESSURE SUPPLY AIR STANLESS STEEL SYMBOL TOTAL DYNAMIC HEAD TOTAL STATIC PRESSURE TOTAL STATIC PRESSURE TOTAL DYNAMIC HEAD TOTAL STATIC PRESSURE DIFFERENCE TOTAL STATIC PRESSURE DROPOLARIABLE AIR VOLUME VARIABLE AIR VOLUME VARIABLE PREQUENCY DRIVE VERTICAL VOLUME VARIABLE PRESSURE DROPOMATT WEIGHT MATER PRESSURE DROPOMATT WEIGHT BULB TEMPERATURE MIREMESH SCREEN

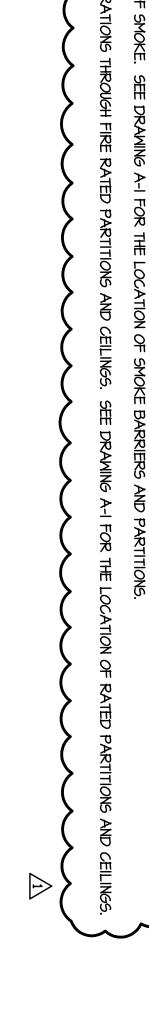
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- ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
- ALL NEW WORK SHALL BE ROUTED SO AS TO NOT IMPEDE ACCESS TO ANY BUILDING SYSTEM COMPONENT LOCATED IN THE CEILING PLENUM
- COORDINATE DOOR UNDER CUTS INDICATED AND REQUIRED FOR PROPER AIR MOVEMENT.
- MOUNT ROOM THERMOSTATS AT 48 INCHES AFF, MOUNT OCCUPANCY SENSORS AT 84 INCHES AFF UNLESS OTHERWISE INDICATED BY ADA REQUIREMENTS
- FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS AND CEILINGS. SEE DRAWING A-I FOR THE LOCATION OF RATED PARTITIONS AND CEILINGS.

THE SPACE AROUND PENETRATING ITEMS AND IN JOINTS IN SMOKE BARRIERS AND PARTITIONS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. SEE DRAWING A-I FOR THE LOCATION OF SMOKE BARRIERS AND PARTITIONS.

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MECHANICAL COVER SHEET M001

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